

DIVISION F2

DETAILED REQUIREMENTS

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- b. **Platen Superheat Extension:**
The Contractor shall design, fabricate and install additional platen superheat surface on both Units 1 & 2, to maximize both reheat and superheat temperature support while maintaining boiler efficiency. The base design case shall consist of an 8 foot extension of the platen superheater element loops.

Unless otherwise specified or recommended by the bidder, the extensions shall be installed at a single cut line located 18 in. above the upper, inner loop tube of each platen element. This will result in an approximate vertical section length on the outer loop tube of each element of 13.5 ft or a actual element extension of 8 ft.. The design shall include appropriate modifications to the steam cooled alignment tubes, additional alignment castings and all other provisions for ensuring reliable, long-term operation of the platen extensions.

The platen extension design shall include a complete assessment of the adequacy of the existing structural support systems, metallurgy, seismic, environmental impacts, boiler efficiency and other operational impacts of the associated boiler modifications.

- c. **Overfire Air System:**
The Contractor shall design, fabricate and install an overfire air system on both Units 1 & 2., that is capable of reducing overall NOx by 15% on each unit and allow for operation at or below 0.40 lbs/MMBTU NOx under normal operation. See Performance Guarantees, Section 11.

Within the design phase of the work, the Contractor shall review all operational impacts on associated equipment and systems such as fans, burners and dampers. Anticipated operating modes, recommended operating methods, and allowable equipment limits shall be clearly defined for the affected systems.

The Contractor shall provide a complete set of drawings for the overfire air modifications including details of the type, quantity and manner of interface for each existing system or piece of equipment affected by the contract modifications. Drawings shall include item by item detail of instrumentation, piping, power and any other inter-ties with or connections to plant systems.

This work includes all access, disassembly, insulation removal, scaffolding, waterwall window construction, OFA port installation, duct installation, air balancing hardware installation, insulation/lagging replacement.

The Overfire Air System shall be designed and constructed with standard sized components and assemblies. This is to allow for retrofit of additional overfire air components or assemblies into the Unit 1 & 2 boilers at a later date in the case where the bidder proposes something less than a full OFA system at the present time.